### **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019

ne

Page 1 of 15 Print Date 01/12/2019

# SAFETY DATA SHEET

#### **BLUE 281 SANTO**

Section 1. Identification		
GHS product identifier	:	BLUE 281 SANTO
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10297273
Product type	:	solid
Relevant identified uses of the subs	tance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

## Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
GHS label elements		
Signal word	:	No signal word.
		1/15

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019

Page 2 of 15 Print Date 01/12/2019

Hazard statements

No known significant effects or critical hazards.

#### **Precautionary statements**

General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

## Section 3. Composition/information on ingredients

:

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10297273

CAS number/other identifiers

Ingredient name	%	CAS number
Carbon black	0.3 - 1	1333-86-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of

## **BLUE 281 SANTO**

ŀ	bly(	)ne.
_		

Version Number 1.0	Page 3 of 15
Revision Date 01/11/2019	Print Date 01/12/2019

	inhalation of decomposition products in a fire, symptoms may be
	delayed. The exposed person may need to be kept under medical
	surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated
	clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at
	rest in a position comfortable for breathing. If material has been
	swallowed and the exposed person is conscious, give small quantities
	of water to drink. Do not induce vomiting unless directed to do so by
	medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical att	entio	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

# Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019



Page 4 of 15

Print Date 01/12/2019

Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containme	ent ar	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019



Page 5 of 15 Print Date 01/12/2019

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Carbon black	OSHA PEL 1989 (1989-03-01) TWA 3.5 mg/m3 OSHA PEL (1993-06-30) TWA 3.5 mg/m3 NIOSH REL (1994-06-01) TWA 3.5 mg/m3 TWA 0.1 mgPAH/m <sup>3</sup> ACGIH TLV (2010-12-06) TWA 3 mg/m3 Form: Inhalable fraction
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers,

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019



Page 6 of 15 Print Date 01/12/2019

		filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

#### Appearance

Physical state	:	solid [Pellets.]
Color	:	BLUE
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019

# <u>PolyOne</u>

Page 7 of 15 Print Date 01/12/2019

Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		<b>Upper:</b> Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

# Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### **Information on toxicological effects**

#### Acute toxicity



## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019 Page 8 of 15 Print Date 01/12/2019

Carbon black       LD50 Oral       Rat       15,400 mg/kg       -         Remarks - Inhalation:       No applicable toxicity data         Remarks - Dermal:       No applicable toxicity data         Conclusion/Summary       :       Mixture.Not fully tested.         Irritation/Corrosion         Conclusion/Summary         Skin       :         Mixture.Not fully tested.         Respiratory       :         Skin       :         Mixture.Not fully tested.         Respiratory         Skin       :         Mixture.Not fully tested.         Conclusion/Summary         In Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary         Intervertice Not fully tested.         Carcinogenicity         Conclusion/Summary         Intervertice Not fully tested. <th>Product/ingredient name</th> <th>Result</th> <th>Species</th> <th></th> <th>Dose</th> <th>Exposure</th>	Product/ingredient name	Result	Species		Dose	Exposure	
Remarks - Inhalation:         No applicable toxicity data           Remarks - Dermal:         No applicable toxicity data           Conclusion/Summary         :         Mixture.Not fully tested.           Irritation/Corrosion         Irritation/Corrosion           Conclusion/Summary         :         Mixture.Not fully tested.           Skin         :         Mixture.Not fully tested.           Respiratory         :         Mixture.Not fully tested.           Skin         :         Mixture.Not fully tested.           Skin         :         Mixture.Not fully tested.           Skin         :         Mixture.Not fully tested.           Respiratory         :         Mixture.Not fully tested.           Skin         :         Mixture.Not fully tested.           Mutagenicity         :         Mixture.Not fully tested.           Conclusion/Summary         :         Mixture.Not fully tested.           Carcinogenicity         :         Mixture.Not fully tested.           Carcon black         :         :         : <th>Carbon black</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Carbon black						
Remarks - Dermal:       No applicable toxicity data         Conclusion/Summary       :       Mixture.Not fully tested.         Irritation/Corrosion		LD50 Oral	Rat		15,400 mg/kg	-	
Conclusion/Summary       :       Mixture.Not fully tested.         Irritation/Corrosion       .         Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Sensitization       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Classification       .       .         Product/ingredient       OSHA       IARC       NTP         Carbon black       .       .       .         Reproductive toxicity       .       .       .         Conclusion/Summary       :       .       .         Carbon black       .       .       .         Conclusion/Summary       :       . <th><b>Remarks - Inhalation:</b></th> <th>No applicabl</th> <th colspan="4"></th>	<b>Remarks - Inhalation:</b>	No applicabl					
Conclusion/Summary       :       Mixture.Not fully tested.         Irritation/Corrosion       .         Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Sensitization       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Cassification       .       .         Product/ingredient       OSHA       IARC       NTP         name       .       .       .         Carbon black       .       .       .         Reproductive toxicity       .       .       .         Conclusion/Summary       :       .       .         Reproductive toxicity       .       .	<b>Remarks - Dermal:</b>	No applicabl					
Conclusion/Summary         Skin       : Mixture.Not fully tested.         Eyes       : Mixture.Not fully tested.         Respiratory       : Mixture.Not fully tested.         Sensitization	Conclusion/Summary			ly tested.			
Conclusion/Summary         Skin       : Mixture.Not fully tested.         Eyes       : Mixture.Not fully tested.         Respiratory       : Mixture.Not fully tested.         Sensitization				-			
Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization	Irritation/Corrosion						
Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization	Conclusion/Summarv						
Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization		:	Mixture.Not ful	ly tested.			
Respiratory       :       Mixture.Not fully tested.         Sensitization       .         Conclusion/Summary       .         Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       .       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       .       .         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       .       .         Product/ingredient       OSHA       IARC       NTP         name       .       .       .         Carbon black       .       .       .         Keproductive toxicity       .       .       .         Conclusion/Summary       :       Mixture.Not fully tested.       .         Reproductive toxicity       .       .       .         Conclusion/Summary       :       Mixture.Not fully tested.       .         Specific target organ toxicity (single exposure)       .       .       .         Specific target organ toxicity (repeated exposure)       .       .       .	Eyes		Mixture.Not ful	ly tested.			
Conclusion/Summary         Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       Conclusion/Summary       :         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       Conclusion/Summary       :         Conclusion/Summary       :       Mixture.Not fully tested.         Classification       Product/ingredient       OSHA         Product/ingredient       OSHA       IARC         name       2B	Respiratory	:	Mixture.Not ful	ly tested.			
Conclusion/Summary       Skin       : Mixture.Not fully tested.         Respiratory       : Mixture.Not fully tested.         Mutagenicity       Conclusion/Summary       : Mixture.Not fully tested.         Carcinogenicity       Conclusion/Summary       : Mixture.Not fully tested.         Carcinogenicity       Conclusion/Summary       : Mixture.Not fully tested.         Carcinogenicity       Conclusion/Summary       : Mixture.Not fully tested.         Classification       Product/ingredient       OSHA       IARC       NTP         name       2B				•			
Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       .       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       .       Mixture.Not fully tested.         Carcinogenicity       .       Mixture.Not fully tested.         Canclusion/Summary       :       Mixture.Not fully tested.         Classification       .       .         Product/ingredient       OSHA       IARC       NTP         name       .       .       .         Carbon black       .       .       .         Reproductive toxicity       .       .       .         Conclusion/Summary       :       .       .         Conclusion/Summary       :       .       .         Conclusion/Summary       :       .       .         Conclusion/Summary       :       .       .         Not available.       .       .       .         Specific target organ toxicity (repeated exposure)       .       .	<b>Sensitization</b>						
Respiratory       :       Mixture.Not fully tested.         Mutagenicity       .       Mixture.Not fully tested.         Carcinogenicity       .       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Classification       .       .         Product/ingredient       OSHA       IARC       NTP         name       .       .       .         Carbon black       .       .       .         Reproductive toxicity       .       .       .         Conclusion/Summary       :       Mixture.Not fully tested.       .         Conclusion/Summary       :       Mixture.Not fully tested.       .         Specific target organ toxicity (single exposure)       .       .       .         Not available.       .       .       .       .         Specific target organ toxicity (repeated exposure)       .       .       .							
Mutagenicity         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :       Mixture.Not fully tested.         Classification         Product/ingredient       OSHA       IARC         NTP         name       2B         Carbon black       2B         Reproductive toxicity         Conclusion/Summary       :         Mixture.Not fully tested.         Teratogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Specific target organ toxicity (single exposure)         Not available.         Specific target organ toxicity (repeated exposure)							
Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Classification       :       Mixture.Not fully tested.         Product/ingredient       OSHA       IARC       NTP         name       :       2B       :         Carbon black       :       2B       :         Reproductive toxicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       :       Conclusion/Summary       :         Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       Not available.       Specific target organ toxicity (repeated exposure)	Respiratory	:	Mixture.Not ful	ly tested.			
Carcinogenicity         Conclusion/Summary       :       Mixture.Not fully tested.         Classification       OSHA       IARC       NTP         name       2B	<b>Mutagenicity</b>						
Conclusion/Summary       : Mixture.Not fully tested.         Classification       Product/ingredient       OSHA       IARC       NTP         name       2B       2B       Seconductive toxicity       NTP         Carbon black       2B       2B       Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure)       Nixture.Not fully tested.       Specific target organ toxicity (repeated exposure)	Conclusion/Summary	:	Mixture.Not ful	ly tested.			
Classification       OSHA       IARC       NTP         name       2B       2B         Carbon black       2B         Reproductive toxicity       ZB         Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Not available.       Specific target organ toxicity (repeated exposure)	<b>Carcinogenicity</b>						
Product/ingredient       OSHA       IARC       NTP         name       Carbon black       2B       2B         Reproductive toxicity       Conclusion/Summary       : Mixture.Not fully tested.         Teratogenicity       Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Specific target organ toxicity (repeated exposure)		:	Mixture.Not ful	ly tested.			
name       2B         Carbon black       2B         Reproductive toxicity         Conclusion/Summary       : Mixture.Not fully tested.         Teratogenicity         Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure)		OSHA	IARC	NTP			
Carbon black       2B         Reproductive toxicity         Conclusion/Summary       : Mixture.Not fully tested.         Teratogenicity         Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure)	_	0.5111					
Reproductive toxicity         Conclusion/Summary       : Mixture.Not fully tested.         Teratogenicity         Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure)	Carbon black		2B				
Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure)		:	Mixture.Not ful	ly tested.			
<u>Specific target organ toxicity (single exposure)</u> Not available. <u>Specific target organ toxicity (repeated exposure)</u>	<u>Teratogenicity</u>						
Not available. Specific target organ toxicity (repeated exposure)	Conclusion/Summary	:	Mixture.Not ful	ly tested.			
	<b>Specific target organ toxicit</b> Not available.	y (repeated ex	posure)				

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019 <u>PolyOne</u>

Page 9 of 15 Print Date 01/12/2019

<u>Aspiration hazard</u> Not available.		
Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, ch	emio	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	::	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects as we	ll as	chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019 Page 10 of 15 Print Date 01/12/2019

P<u>olyOne</u>

#### Acute toxicity estimates

Not available.

# Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure			
Carbon black						
Remarks - Acute - Fish:	No applicable toxicity data					
	Acute EC50 37.563 Mg/l Fresh	h Aquatic invertebrates.	48 h			
	water	Daphnia				
Remarks - Acute - Aquatic	Acute					
invertebrates.:						
Remarks - Acute - Aquatic	No applicable toxicity data					
plants:						
Remarks - Chronic - Fish:	No applicable toxicity data					
Remarks - Chronic -	No applicable toxicity data					
Aquatic invertebrates.:						
BLUE 281 SANTO						
Remarks - Acute - Aquatic	Chemicals are not readily available as they are bound within the polymer matrix.					
invertebrates.:						
Conclusion/Summary	: Chemicals are not readily available as they are bound within the					
	polymer matrix.					
Persistence and degradability	<u>/</u>					
Conclusion/Summary	: Chemicals are not	readily available as they are bo	und within the			
•	polymer matrix.	5				
Conclusion/Summary	: Chemicals are not	readily available as they are bo	und within the			
<u> </u>	polymer matrix.	5				
Bioaccumulative potential Not available.						
not available.						

#### Mobility in soil

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019

# <u>PolyOne</u>

Page 11 of 15 Print Date 01/12/2019

Soil/water partition coefficient	:	Not available.
(KOC)		
Other adverse effects	:	No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

## Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

# Section 15. Regulatory information

U.S. Federal regulations	:	<ul> <li>United States - TSCA 12(b) - Chemical export notification: None of the components are listed.</li> <li>United States - TSCA 4(a) - Final Test Rules: Not listed</li> <li>United States - TSCA 4(a) - ITC Priority list: Not listed</li> <li>United States - TSCA 4(a) - Proposed test rules: Not listed</li> </ul>
		11/15

### **BLUE 281 SANTO**

Version Numbe	er 1.0
Revision Date	01/11/2019

# PolyOne

Page 12 of 15 Print Date 01/12/2019

United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Phthalocyanine Blue Phthalocyanine green United States - EPA Clean water act (CWA) section 311 -Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b)	:	Listed
Hazardous Air Pollutants (HAPs)		
Clean Air Act Section 602 Class I	:	Not listed
Substances		
Clean Air Act Section 602 Class II	:	Not listed
Substances		
<b>DEA List I Chemicals (Precursor</b>	:	Not listed
Chemicals)		
<b>DEA List II Chemicals (Essential</b>	:	Not listed
Chemicals)		

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

#### SARA 311/312

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019 Page 13 of 15 Print Date 01/12/2019

Classification

Not applicable.

:

#### **Composition/information on ingredients**

No products were found.

Name	%	Classification
Carbon black	>= 0.3 - <= 1	Delayed (chronic) health hazard

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Benzene, 1,2,3,4,5,6-	118-74-1	0 - 0.1
requirements	hexachloro-		
Supplier notification	Benzene, 1,2,3,4,5,6-	118-74-1	0 - 0.1
	hexachloro-		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations		
Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: Phthalocyanine Blue Carbon black
Pennsylvania	:	The following components are listed: Carbon black
		Phthalocyanine Blue

#### California Prop. 65

**WARNING:** This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Carbon black	No.	No.

United States inventory (TSCA 8b)	:	All components are listed or exempted.

Canada inventory	:	All components are listed or a	exempted.
------------------	---	--------------------------------	-----------

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019 <u>PolyOne</u>

Page 14 of 15 Print Date 01/12/2019

#### **International regulations**

#### **Inventory list**

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe inventory	: All components are listed or exempted.
Japan	: All components are listed or exempted.
New Zealand	: Not determined.
Philippines	: All components are listed or exempted.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.

## **Section 16. Other information**

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

<b>History</b>		
Date of printing	:	01/12/2019
Date of issue/Date of revision	:	01/11/2019
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
0		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		U

## **BLUE 281 SANTO**

Version Number 1.0 Revision Date 01/11/2019

# <u>PolyOne</u>

Page 15 of 15 Print Date 01/12/2019

LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations Not available.

References

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.

•